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NOTICE OF ALLOWANCE AND FEE(S) DUE

22204 7590 10/30/2008 NIXON PEABODY, LLP 401 9TH STREET, NW

SUITE 900 WASHINGTON DC 20004-2128 EXAMINER
ZIMMER, MARC S

PAPER NUMBER

ART UNIT

DATE MAILED: 10/30/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,982	08/18/2006	Koji Hayashi	740709-562	2450

TITLE OF INVENTION: POLYIMIDESILOXANE SOLUTION COMPOSITION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	g the Patent, erwise in Blo	advance or ock 1, by (a	rders and notification a) specifying a new o	of n	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence add ate "FEE ADDRE	lress as SS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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APPLICATION NO.	NO. FILING DATE			FIRST NAMED INVEN	TOR	R ATTORNEY DOCK		RNEY DOCKET NO.	CONFIRMATION	NO.
10/589,982 TITLE OF INVENTION	08/18/2006 F: POLYIMIDESILOXA	NE SOLUTIC	N COMPO	Koji Hayashi SITION				740709-562	2450	
APPLN, TYPE	SMALL ENTITY	ISSUE FE	E DUE	PUBLICATION FEE I		PREV. PAID ISSUE FI		TOTAL FEE(S) DUE	DATE DUE	
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ZIMMER,		179		427-387000						
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22204	7590	10/30/2008		EXAM	UNER	
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401 9TH STF	REET, N	NW		ART UNIT	PAPER NUMBER	
SUITE 900 WASHINGTON, DC 20004-2128				1796 DATE MAILED: 10/30/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 378 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 378 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/589 982 HAYASHI ET AL. Notice of Allowability Examiner Art Unit MARCS ZIMMER 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 08/18/06. 2. The allowed claim(s) is/are 1-11.

3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

☐ All_ b)☐ Some* c)☐ None of the:

1. \boxtimes Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No.

 Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has	THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirement
noted below.	Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE	MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

1) hereto or 2) to Paper No./Mail Date ____

(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1.

Notice of References Cited (PTO-892)

2. Notice of Draftperson's Patent Drawing Review (PTO-948)

3. M Information Disclosure Statements (PTO/SB/08),

Paper No./Mail Date 11/21/06

 Examiner's Comment Regarding Requirement for Deposit of Biological Material 5. Notice of Informal Patent Application

 Interview Summary (PTO-413), Paper No./Mail Date .

7. Examiner's Amendment/Comment

8. X Examiner's Statement of Reasons for Allowance

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Art Unit: 1796

Allowable Subject Matter

Claimed is a composition comprising polyimidesiloxane copolymer, isocyanate/epoxy curing agent, and a defoaming agent said to comprise all of (i) dimethylpolysiloxane which, for the purpose of evaluating the claims against the prior art, has been treated to be a referring to a homopolymer constituted only of dimethylsiloxane repeating units to the exclusion of copolymers having a mixture of dimethylsiloxane repeat units and another repeat unit featuring substituents other than methyl groups as this appears to be consistent with the intentions of the instant Application, (II) a polysiloxane having hydrophilic substituents of which polyoxyalkylene chains are exemplary, and (iii) silica having micrometer-sized dimensions. Also claimed is a method of using the same.

The most pertinent prior art all appears to be commonly assigned. The first relevant document is JP 2002-12664, the teachings of which are summarized early in Applicants' Specification. This document teaches a film-forming composition that is comparable to the claimed composition in every respect except that there is no mention of a polysiloxane bearing hydrophilic groups. Indeed, it is the presence of this component that Applicants regard as their contribution over the prior art.

Japanese Patent Nos. 10-219225 ('225) and 5-311144 ('144), are directed to adhesive compositions that may be employed to laminate circuit board substrates to a copper foil. The former teaches a composition comprising a similar copolymer and curing agent and also a fluorinated surfactant. The latter teaches a composition

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containing polysiloxane-imide copolymer, an epoxy, and, notably, a polysiloxane featuring pendant/terminal epoxide moieties and polyoxyalkylene segments.

In re Kerkhoven 205 USPQ 1069 held that, "it is prima facie obvious to combine two compositions, each of which is taught by prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose." However, neither '225 nor '144 contemplate the polydimethylsiloxane component hence their combination would still fail to render obvious the claimed invention. JP 2002-12664 ('664), on the other hand, teaches a similar composition, but discloses a different utility. Accordingly, it is the Examiner's position that this document is not combinable with either of '225 or '144 using the Kerkhoven rationale. Indeed, it is the Examiner's belief that the impact that a non-functional polydiorganosiloxane oil would exert on the adhesive properties of either of the aforementioned adhesive compositions is unpredictable and, therefore, there is no clear motivation to combine the teachings of '664 with '225 or '144.

The prior art cited herein is the most germane known to the Examiner. Inasmuch as it fails to even render obvious the instant invention, claims 1-11 are deemed allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARC S. ZIMMER whose telephone number is (571)272-1096. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jim Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

October 20, 2008

/Marc S. Zimmer/ Primary Examiner, Art Unit 1796